

EXPRESS MAIL MAILING LABEL NO. EV689989704US

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number
WO 2005/093431 A2

- (51) International Patent Classification⁷: **G01N 33/84**
- (21) International Application Number:
PCT/GB2005/050042
- (22) International Filing Date: 23 March 2005 (23.03.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0406479.6 23 March 2004 (23.03.2004) GB
- (71) Applicant (*for all designated States except US*): BABRAHAM INSTITUTE [GB/GB]; Babraham Hall, Babraham, Cambridge, Cambridgeshire CB2 4AT (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **LOCKYER, Peter** [GB/GB]; Babraham Hall, Babraham, Cambridge Cambridgeshire CB2 4AT (GB).
- (74) Agent: MARKS & CLERK; 66-68 Hills Road, Cambridge, Cambridgeshire CB2 1LA (GB).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/093431 A2

(54) Title: METHODS FOR DETECTING CALCIUM ION INFLUX

(57) Abstract: A method for detecting influx of calcium ions into a eukaryotic cell comprising providing a eukaryotic cell having a detectable reporter capable of translocation from the cytosol to associate with the plasma membrane in response to an influx of calcium ions, and, monitoring association of the detectable report with the plasma membrane and/or a decrease in the detectable report in the cytosol. The detectable report is preferably CAPRI or a derivative thereof and is preferably labelled with a fluorescent marker.